

## ANNEX A

### STATEMENT OF WORK **OR** REQUIREMENT

NRC ACRD has a requirement for the supply of an anaerobic chamber, which must meet all of the mandatory technical requirements as specified below. The requirement must include all of the following:

The requirement is for one anaerobic chamber workstation to support the manipulation of microbes in a controlled environment – specifically for an oxygen-free environment where samples can be handled directly by hand, without gloves.

- The workstation needs to have an enclosed environment for the manipulation of cultures using 2 arms
- The workstation needs to include a purpose-built stand, so the user can sit in front of it
- The chamber must have a gloveless sleeve design, so arms reach into the chamber with a seal around the user's arms
- The chamber in the workstation needs to be capable of reaching 10 ppm of oxygen or lower ("anaerobic") when sitting undisturbed
- There is a requirement that the chamber remains anaerobic while accompanying gas cylinders are changed
- There is a requirement for an integrated vacuum pump for evacuating the air inside the chamber, to replace it with inert gas
- There is a requirement for an audible and visual alarm for low gas supply
- There is a requirement for the chamber to accommodate 600 standard-sized petri plates for incubation
- The chamber size needs to be at minimum 16 cubic feet
- There needs to be a clear/transparent window so the user can inspect the samples
- The chamber needs to have temperature control between 5 to 70 degrees Celsius
- The chamber should include HEPA filters for air purification, that can be replaced by the user
- The unit must have a North American standard compatible power system (120-240 VAC, 50/60Hz)
- The unit must meet all applicable Canadian Standard Association (CSA) or Underwriters' Laboratories of Canada (ULC) standards.

Contract obligations:

#### 1) **Installation**

Not applicable

#### 2) **Manuals**

The Contractor must deliver 1 complete set of Documentation, in English with the deliverables.

This documentation must include all publications pertaining to technical specifications, installation requirements and operating instructions.

**3) Training**

Not applicable

**4) Maintenance and Support Services**

The Contractor must provide at minimum a 2 year warranty on the chamber

**Evaluation (Needed for Public Tenders) Section B: Mandatory Technical Evaluation Criteria**

The following requirements are the mandatory technical evaluation criteria which will be evaluated during the Bid Evaluation. In addition the Contractor will be required to meet all of the mandatory technical requirements for the duration of the Contract. Bidders are requested to cross reference the mandatory technical criteria in a concise format by using page, paragraph(s) & sub-paragraphs as applicable to their supporting technical documentation.

List items from the Statement of Requirement to evaluate and insert in the table below.

No	DESCRIPTION	PASS OR FAIL
1	The unit is capable of achieving an anaerobic environment (10 ppm of oxygen).	
2	The unit can incubate at minimum 600 plates.	
3	The unit has gloveless sleeves, so cultures within the unit can be manipulated with bare hands.	
4	The system has an integrated vacuum pump for air evacuation.	
5	The unit includes a purpose built stand.	
6	The unit has at minimum a 16 cubic foot workspace.	
7	The unit requires 110-120 volts for electrical.	